(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 June 2004 (03.06.2004)

(10) International Publication Number WO 2004/045520 A2

(51) International Patent Classification⁷:

A61K

(21) International Application Number:

PCT/US2003/036459

(22) International Filing Date:

13 November 2003 (13.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/426,676

15 November 2002 (15.11.2002)

- (71) Applicant (for all designated States except US): MUSC FOUNDATION FOR RESEARCH DEVELOPMENT [US/US]; 261 Calhoun Street, Suite 305, Charleston, SC 29425 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): TOMLINSON, Stephen [US/US]; 1287 Abercom Trace, Mt. Pleasant, SC 29466 (US).
- (74) Agents: SPRATT, Gwendolyn, D. et al.; Needle & Rosenberg, P.C., Suite 1000, 999 Peachtree Street, Atlanta, GA 30309-3915 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: Modulation of the complement system represents a therapeutic modality for numerous pathologic conditions associated with complement activation. In a strategy to prepare complement inhibitors that are targeted to sites of complement activation and disease, compositions comprising a complement inhibitor linked to complement receptor (CR) 2 are disclosed. The disclosed are compositions can be used in methods of treating pathogenic diseases and inflammatory conditions by modulating the complement system.